

PROCESSING GUN USING PIEZOELECTRIC ELEMENT AND ITS CONTROL DEVICE

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Abstract

PURPOSE:To provide a processing gun and its control device which can carry out a highly accurate processing at a small size and a light weight.

CONSTITUTION:A pressurizing punch 13 is moved up and down by an actuator 15, a work is held between the punch 13 and a die 11, and a voltage is applied to a piezoelectric element built in a piezoelectric element processor 16 to project a rod 12, so as to apply a specific processing to a work. The voltage applied to the piezoelectric element is decided minutely while giving a feedback depending on the processing condition stored beforehand. After the processing is finished, it is decided whether a normal processing has been carried out or not.

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